

Disinfectant Residual Reporting

Systems must report the following (40 CFR 141.134(c)):

- (i) The number of samples taken during each month of the last quarter.
- (ii) The monthly arithmetic average of all samples taken in each month for the last 12 months.
- (iii) The arithmetic average of the monthly averages for the last 12 months.
- (iv) Whether, based on Sec. 141.133(c)(1), the MRDL was violated.

Step 1:

- a. Enter data from the current month of monitoring, including begin and end dates for sample collection.
- b. The disinfectant residual data entered is that monitored at the same time and place as coliform samples are collected. The number of samples collected should equal the number of coliform samples collected during the month (including repeat coliform samples).
- c. If you did not monitor for free chlorine during the month, leave those cells blank.

Monthly sample collection begin date:	3/1/2016
Monthly sample collection end date:	3/15/2015

Parameter	# of Samples	Monthly Average	Min	Max
Free Cl ₂	4	1.81	0.05	2.80
Total CL ₂ - Chloramine disinfection	2	2.58	1.76	3.40
Total CL ₂ - Chlorine disinfection	2	1.1	2.2	2.20

Step 2:

- a. Drop the oldest month of data and add the most recent month.
- b. Enter the current month's data (average, minimum, maximum) into the RAA calculation, below.
- c. If you did not monitor for free chlorine during the month, leave those cells blank.
- d. This spreadsheet will automatically calculate the running annual average based on the monthly averages.
- e. At the end of the quarter (March, June, September, December), the running annual average of monthly averages (RAA) is used to determine compliance with the MRDL.
- f. The RAA averages at the end of the quarter are necessary for CWSs to prepare CCRs.

		Total Chlorine			Free Chlorine		
		Monthly average	Min	Max	Monthly average	Min	Max
April	2015	1.60	0.49	2.12	1.41	0.39	1.86
May	2015	2.08	1.53	3.20			
June	2015	2.73	2.30	3.00			
July	2015	2.05	0.81	2.70			
August	2015	1.17	0.66	1.91			
September	2015	1.28	0.10	2.70			
October	2015	1.07	0.02	2.80			
November	2015	1.47	0.11	2.70			
December	2015	2.07	0.27	3.50			
January	2016	2.2	0.39	3.60			
February	2016	2.87	1.19	3.60			
March	2016	2.37	1.76	3.40	1.81	0.05	2.80
Running Avg		1.9			1.61		

RAA Summary

		Total Chlorine	Free Chlorine
JUNE	2015	2.0	1.2
SEPTEMBER	2015	1.9	1.4
DECEMBER	2015	2.0	1.4
MARCH	2016	1.9	1.6